20030524.qrp v02_n930.qrl.20030524

Date: Sat, 24 May 2003 19:03:14 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2930

QRP-L Digest 2930

Topics covered in this issue include:

    by Kenneth Hoglund <hoglund@wfu.edu>
20) [151214] SVRC Hamfest
    by "Tim, N9PUZ" <n9puz@arrl.net>
21) [151215] Re: The fairy godmother waves her magic wand...
    by Dale Botkin <dale@botkin.org>
22) [151216] Re: Ot: Stripping the outer insulation from Telephone wire?
    by Dale Botkin <dale@botkin.org>
23) [151217] Re: SPICE models
    by "Leon Heller" <leon_heller@hotmail.com>
24) [151218] Re: Third Order Intercept
    by "Karl F. Larsen" <k5di@zianet.com>
25) [151219] Rochester, NY
    by "Ron Polityka" <wb3aal@fast.net>
26) [151220] Hamfest Headsup
    by "Brian Murrey - KB9BVN" <brian@iquest.net>
27) [151221] Re: Dayton Icom Announcement
    by "Karl F. Larsen" <k5di@zianet.com>
28) [151222] Re: Dayton Icom Announcement
    by George Fremin III <geoiii@kkn.net>
29) [151223] FS QRP+/INDEX COMPANION tuner
    by <n2go@arrl.net>
30) [151224] Different Antenna Question
    by psschwarz@kellnet.com
31) [151225] LED voltage indicator
    by Tom Bowman <wa3rey@comcast.net>
32) [151226] diode ring mixers
    by "Mike Mullins" <mmullins@mastnet.net>
33) [151227] Re: Suggestions for QRP carrying cases?(long)
    by David Hinerman <WD8CIV@worldnet.att.net>
34) [151228] fwd:Re: SMD soldering
    by "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
35) [151229] HW9 Main Tuning Cap
    by "john gabbard" <johngabbard@usintouch.com>
36) [151230] Re: FS QRP+/INDEX COMPANION tuner- SOLD
    by <n2go@arrl.net>
37) [151231] DSWII Beta Report/Review (LONG)
    by Lew Paceley <lew@paceley.com>
38) [151232] =?ISO-8859-1?Q?Re:N0SXX=20from=20Colorado=20Trail=20Sat=20Nite:=20?=
=?ISO-8859-1?Q?N=D8BN=20will=20be=20camping=20nearby?=
    by N0BN@aol.com
39) [151233] FS QRP++ Index SSB/CW transceiver
    by <n2go@arrl.net>
40) [151234] Re: Dayton Icom Announcement
    by "Karl F. Larsen" <k5di@zianet.com>
41) [151235] Re: DSWII Beta Report/Review (LONG)
    by <tlogan7@cox.net>
42) [151236] PA or antenna
    by "Tom" <kf4yyd@adelphia.net>

Date: Fri, 23 May 2003 19:02:50 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: <lejek@erols.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [151195] Re: MO Falls all QRP
Message-ID: <006901c3217f$7014f250$b8cf1d41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

OK Larry,

Here is the deal...

Nancy, my wife and I will do a trip to Wirt County WV this Sunday.
Plan is to do a QSO between NOON and 3PM EDT on 7044 KHz.
We'll find a County Park so I can string up a 1/2 wave dipole for 40 meters.
Rig is my multiPIG+ 5Watt Homebrew rig.

Any other county hunters ar welcome, but I will be looking for Larry.

What say?

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
RIG:multiPIG+ ANT:470 FT Horiz Loop http://kitsandparts.com

----- Original Message -----
From: "Larry Cahoon" <lejek@erols.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, May 23, 2003 5:34 PM
Subject: Re: MO Falls all QRP

Tnx Diz,

I'll take all the help I can get. There are three I need in KY - Morgan, Nicholas, and Pendleton. The only other one east of the Mississippi is Wirt, WV. The full list is up at the web site.

Tnx and 73 de Larry.....WD3P in MD
http://www.wd3p.net/

At 05:15 PM 5/23/2003 -0400, w8diz wrote:
>OK Gang,
>
>Let's give Larry a hand with this remarkable achievement.
>
>Larry, do you have a list of the counties that you need?
>I would be willing to set up portable operation in OH, KY, IN
>to help out. Let us know where the county list is, OK?
>Maybe we can put this WorkedAllCounties thing to bed.
>I'd be proud to participate in your achievement.
>
>72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
>Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
>RIG:multiPIG+ ANT:470 FT Horiz Loop http://kitsandparts.com
>
>
>----- Original Message -----
>From: "Larry Cahoon" <lejek@erols.com>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Sent: Friday, May 23, 2003 4:53 PM
>Subject: MO Falls all QRP
>
>
>Wednesday afternoon Dave, W0CH/M, headed out for his trip across the state
>of MO. With a slight detour in the neighborhood of 100-200 miles he gave
>me Howard county to finish off the state of MO all QRP.
>
> Actually over the past month Dave has given me the last three I needed in
>MO QRP. So it is help that I appreciate very much. This QSO, I still have
>to verify what rig Dave had, but I am almost certain was a 2xQRP, 2xCW,
>2xK2 QSO to finish off the state. I was running 4 watts to my trusty dipole.
>
>Average power to work a MO county came in at 780 mWatts.

>
>Now only 21 counties to go in 9 states to finish up USA-CA all QRP-CW.
>
>73 de Larry.....WD3P in MD
>http://www.wd3p.net/

Date: Fri, 23 May 2003 17:04:14 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [151196] Re: Suggestions for QRP carrying cases?(long)
Message-ID: <20030523.170545.-376421.10.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have tried the padded camera case for my
QRP+, and found that was too small for most
of the accessories. So, I acquired a zero case (aluminium
camera case)with the cut to fit foam insert. That
worked ok but found it a bit small for some items.
The next case was a Pelican case, about the same length
as the Zero case but an inch or two deeper. That works
quite well as a carry to set up elsewhere case, with
room for the power supply or battery, tuner,
cables, antenna wire, Gerber tool knife, paddle and hand
key. I think that a plastic type tool box or fishing
tackle box such as what is sold at WalMart or Lowe's
might be better as the units could be set in, connected
and ready to operate upon arrival at the destination.
It comes down to one trying the different types of
containers and then deciding what is best for their
situation.

73
Ray
"Texas can make it without the United States,
but the United States can't make it without Texas."
Sam Houston, Governor
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
ARCI-5784 NCT2R El Paso,(FAR WEST) TEXAS

Date: Fri, 23 May 2003 19:21:12 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151197] Re: Dayton Icom Announcement--dual receive
Message-ID: <002001c3219b$25b32210$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Bill Coleman" <aa4lr@arrl.net>
>
> Not impossible, but extremely difficult. Basically, you'd need bandpass
> filters with > 100 dB of isolation, capable of handling 150 watts or
> more. The filters would likely be larger than the radio.

Hard to imagine being able to receive while transmitting from the same box, especially suffering through so many Field Days with inter-station QRM. But I guess it could be done.

>
> In-band receive has been around for a long while. The FT-1000 series has
> it, and even the old TenTec Omni-D could do it (with the optional VFO).
> This is handy for monitoring both frequencies when working split.

I had a Triton-4 that would do dual receive with its outboard VFO.

72--Nick, WA5BDU

Date: Fri, 23 May 2003 18:24:23 -0500
From: "tmyers" <tmyers@academicplanet.com>
To: <Makos327@worldnet.att.net>
Cc: "QRP-L Post" <qrp-l@lehigh.edu>
Subject: [151198] Re: Suggestions for QRP carrying cases?
Message-ID: <000801c32182$73933c40$0100a8c0@newkid>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The least expensive thing I have found is a plastic foam lined "pistol"

case. For a small rig use a single pistol case for about $5 and then it is up hill as the number of pistols go up. I make cut-outs for the various items I plan on putting in them. They can be locked and they are small and light. I have a K1, key, phones and cables in a single pistol case.   I use various batteries so I didn't consider that and I don't think there is room enough left for one anyhow.

I have seen them in sporting goods stores, Wal-mart and the like.

Terry, KQ5U
Spring, Texas

----- Original Message -----
From: Lawrence Makoski <Makos327@worldnet.att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, May 23, 2003 15:33
Subject: Suggestions for QRP carrying cases?

> Hello to all on the list !
>
> I need to pick your brains for a moment. The other week I finished
> constructing an OHR Classic that I had for years; but never built,
until now
>   Anyway, it's up and running and I've been operating from my car in
the
> parking lot at work during lunch. It get me out of the office for a
few
> minutes and it's fun besides!
>
> Anyway, I have been carrying the Classic, an Emtech ZM 2 tuner and an
OHR
> WM1 (along with battery, key and cables) in a gym bag in the back of
my Ford
> Explorer. Today, I got the idea that instead of a gym bag; it might
be nice
> to have something more "cushiony" that would protect all these kits
that I
> so lovingly built.
>
> What do you guys use; if anything, for carrying your stuff around? I
was
> thinking of something hard plastic and filled with a blank foam insert
that
> I could make cut-outs to cradle this stuff would be nice; but I have
no idea
> where to even start looking. Also, the cheaper the better! I'm in
the

> process of saving up for an OHR 500 for the shack; and I want to
divert as
> little of those funds as possible.
>
> So .... I'm looking for ideas from the experts - my fellow QRP Hams on
this
> list. Thanks in advance for your ideas.
>
> 73 de Larry W2LJ
> http://www.qsl.net/w2lj
>

Date: Fri, 23 May 2003 19:56:39 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [151199] Paired Autek QF-1As?
Message-ID: <12c.2ad55a4e.2c000f37@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I was reading the eham reviews on the Autek QF-1A and there were a couple of commenters noting the advantage of running a pair in either series or parallel for better performance. I am interered in feedback regarding noted improvement using a pair of these filters

http://www.eham.net/reviews/detail/756?ehamsid=f9dd38d17e5914d20c5380998654ae86

I have used the QF-1 for several years and it is true it pulls those CW signals out of the mud

Thanks

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
___ ___ . . . . . . ___ ___ DIT DIT

Date: Fri, 23 May 2003 20:28:34 -0400
From: Howard Friedman <haf47@juno.com>
To: qrp-l@lehigh.edu
Subject: [151200] REALLY, REALLY Cheap Homebrew Paddles
Message-ID: <20030523.202835.-477711.0.haf47@juno.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello to all, and a happy Memorial Day weekend to all,

I have noticed with interest the threads concerning cheap homebrew paddles and saw that a favorite website was not mentioned. It has a good deal of info including the history of Morse in New Zealand, and those wonderful Galbraith paddles.

On this new (and very nice) webpage you can find the above mentioned starter paddle and many other fine paddles. I think that there will be those who wouldn't even consider the "starter" paddles as they might be considered hokey, but don't knock them until you try 'em.

I was unsure as to what material to try for the U shaped paddle part, and used a piece of sheet metal left over from a piece of duct work when I had a new furnace installed.

Darned if these simple paddles work! 15 minutes or so is all it took me to make mine.

Look for Gary Bold's starter paddles. The instructions are more than adequate.

http://www.morsecode.gen.nz/start.php

73, Howard WA2AFD

Date: Fri, 23 May 2003 19:44:07 -0500
From: "K5KW" <k5kw@onrampok.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151201] MiniBoots Amps Tramp Thru Oklahoma
Message-ID: <006c01c3218d$95c31000$405258d8@21byq>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Those boots just keep on walkin' and have reached
mid-America. My kit came in today's mail. Wow! That's a real first class board, from a first-class bunch! Congrats Jim and Doug, and the rest of the NorCal innovators, on NorCal's 10th anniversary.

I'll spare you the misery and won't sing Happy Birthday to you, but may you and NorCal have many, many more.

72,

Don, K5KW
in old Fort Gibson, oldest town in Oklahoma

Date: Fri, 23 May 2003 19:17:28 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: k5di@zianet.com
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151202] Third Order Intercept
Message-ID: <BAF42448.73F8%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Karl - QST reports Third Order Intercept Point, also known as IP3, in their reviews of rigs. It is in the table of receiver measurements, Table 1 usually, right below two tone third order IMD dynamic range. Take a look at your QST FT-817 review for it.

The handbook explains the third order intercept. It is on page 17.5 of the 2001 Handbook. Measurements techniques for it are on page 26-45.

Plot the "transfer function of a receiver, so that the output is on the y axis and the input is on the x-axis. The desired receiver output increases 1 dB for every 1 db input. The undesired third order intermodulation products (the hardest ones to eliminate in a receiver) output increases 3 dB for every dB increase in input. If you plot the third order line on the same graph it will have a steeper slope and intercept the normal 1db/1db transfer curve. The point of intersection is the intercept point. Higher numbers are better.

There is a bit more to it than that, but the ARRL does report TOI (IP3) in QST reviews and explains it in the Handbook. I hope that this helps. - Dr. Megacycle KK6MC/5

_____
James R. Duffey KK6MC/5
Cedar Crest NM 87008 DM65

Date: Fri, 23 May 2003 21:36:57 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <w5xe@juno.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151203] Re: Suggestions for QRP carrying cases?(long)
Message-ID: <001c01c32194$fae7fd90$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ray -
How do you cut the foam to fit in those cases? Last time I tried it, the result looked like a beaver with mad cow disease had attacked it?
73 de Lee
km4yy

----- Original Message -----
From: "William R Colbert" <w5xe@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, May 23, 2003 7:04 PM
Subject: Re: Suggestions for QRP carrying cases?(long)

> I have tried the padded camera case for my
> QRP+, and found that was too small for most
> of the accessories. So, I acquired a zero case (aluminium
> camera case)with the cut to fit foam insert. That
> worked ok but found it a bit small for some items.
> The next case was a Pelican case, about the same length
> as the Zero case but an inch or two deeper. That works
> quite well as a carry to set up elsewhere case, with
> room for the power supply or battery, tuner,
> cables, antenna wire, Gerber tool knife, paddle and hand
> key. I think that a plastic type tool box or fishing
> tackle box such as what is sold at WalMart or Lowe's
> might be better as the units could be set in, connected
> and ready to operate upon arrival at the destination.
> It comes down to one trying the different types of
> containers and then deciding what is best for their
> situation.

>
> 73
> Ray
> "Texas can make it without the United States,
> but the United States can't make it without Texas."
> Sam Houston, Governor
> Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
> ARCI-5784 NCT2R El Paso,(FAR WEST) TEXAS
>

Date: Fri, 23 May 2003 21:37:52 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: "qrpl" <qrp-l@Lehigh.EDU>
Subject: [151204] Mini Boots
Message-ID: <002101c32195$1a9d0e50$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mini Boots reached the mountains of WV today.
73 de Lee
km4yy/8

Date: Fri, 23 May 2003 19:54:37 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: ARDUJENSKI@aol.com
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151205] Re: Paired Autek QF-1As
Message-ID: <BAF42CFC.73FB%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Alan - I have both a QF-1 and QF-1a. I have used them in series; the high pass function of one with the low pass of the other. It works OK, but is not significantly better than the bandpass function of the individual filter. I am not sure how you would use them in parallel, except perhaps to generate a binaural effect; high pass to one ear, low pass to the other. One problem I have with the Auteks is AC (120 Hz?) hum that seems easy to reduce, but impossible to eliminate.

I think that a better investment would be a different type of filter. The Auteks are not bad, but there are better filters out there. If I were you, I would look for a DaTong FL-3 or FL-2, a Heathkit HD1418, or Bencher ZX-2. These are all good analog audio filters These are a bit more expensive than the Autek, but all perform better, at least in my ezperience. If you want a good DSP filter look for a Timewave DSP-59, or with less functionality a Timewave 9. I hope that this helps. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Fri, 23 May 2003 19:19:10 -0700
From: "Rich Johnson" <rjohnson390@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151206] SPICE models
Message-ID: <003c01c3219a$dcf77170$5c96d00c@END0EB86CD98A1>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Any one have the 2N5109 and/or 2N3553 SPICE models.
If so please send them on over. I have not been able to locate them on the web.

Thanks
rich

Date: Fri, 23 May 2003 20:19:42 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: nkennedy@tcainternet.com
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151207] Re: Dayton Icom Announcement--dual receive
Message-ID: <BAF432DE.73FC%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I recall that the Hallicrafters SR-400 (Hurricane?) and SR-2000 had this capability in the late 60s, again with the external VFO. - DUvvey

---

James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Fri, 23 May 2003 20:25:10 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: ku4qd@earthlink.net
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151208] Re: Several Antenna Questions
Message-ID: <BAF43426.73FD%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: quoted-printable

Caity - You can model your antenna more precisely with W7EL's demo copy of
ELNEC (DOS), or the free MMANA software. That is probably better than the
off the top of the head analysis we can do by e-mail.

Your 160 feet of RG-8X has about 2.7 dB loss on 17 M, and slightly higher a=
t
10 M. The effect of this large loss is to decrease the effective SWR at the
transmitter end. The reflected current measured at the SWR meter when place=
d
at the transmitter is about half of what it is at the antenna. That makes
the SWR look lower than it really is.

The consequence of this loss is that with 2.7 dB loss, an antenna SWR of 5:=
1
or less will look like 2:1 or less at the transmitter. The function is
asymptotic, so even an SWR of 100:1 at the antenna will not measure much
above 3:1 at the transmitter. Yet another reason to reject SWR as an antenn=
a
figure of merit.

As others have mentioned, the odd multiples of a half wavelength antenna,
3,5,7, and so forth, will have fairly low, purely resistive feed points. Th=
e
resonant frequencies are not on exact multiples of the fundamental however.
This is due to the end effect, which reduces the effective dipole length du=
e
to capacitive loading at the ends. So instead of:

dipole length =3D 468/Frequency (MHz)

for a single dipole; the resonant frequency of a long wire with N half wave=
s

is:

length =3D 492(N-0.05)/frequency (MHz)

Since the 80 M band is 0.5 MHz wide, the exact frequency of the harmonic ca=
n
vary greatly at higher frequencies, 7 X 0.5 =3D 3.5 MHz!

If your 80 M dipole is cut for the QRP frequency, 3.540, then the length
will be 132.2 feet This will resonate at 10.97 MHz, 18.42 MHz, and 25.86,
and 33.33

So this is a bit high for 30 M, will be a bit high for 17 M, but probably
still below 2:1 SWR, and on 12 M, it will be high, but with the large feed
line loss, it will probably be less than 2:1. I think that is more or less
what you see.

On 40 M, the third harmonic will fall on 21.9 MHz, a bit outside of the
band, but the line loss helps here to bring the SWR below 2:1.

The third harmonic of 20 M falls above 40 MHz, so that is not much help.

The other dipoles will have reactive loads that may be comparable to the
80=A0M resistive load on the harmonic frequencies. On 17 M, the 20 M dipole
will be inductive, and the 40 M dipole will be capacitive, by roughly the
same mount so this can shift the 17 M resonance of the 80 M dipole up or
down a bit. In your case it probably shifts it down.

How does it load on 30 M?

If I were you, I would try to find some way to replace some or all of that
160 feet of RG-8X with lower loss feed line. Losing half of your power on
the higher frequencies is a bit hard to take. But you probably know that
already. I hope that this helps. - Dr. Megacycle KK6MC/5

_____
James R. Duffey KK6MC/5
Cedar Crest NM 87009 DM65

Date: Fri, 23 May 2003 22:32:26 -0400
From: Larry Przyborowski <k3peg@comcast.net>
To: lmairs@direcway.com,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151209] Re: Suggestions for QRP carrying cases?(long)
Message-ID: <015001c3219c$b7794a20$6401a8c0@K3PEGMAIN>

MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi,

Many years ago in the Baltimore, MD area, I watched a fellow who owned a foam and surplus sales store (Conkling Salvage Exchange) cut foam rubber to order. As I remember, he used a large 1.5 to 2" wide, 10 inch long kitchen knife with a serrated edge (I think) to do the job. He coated the knife's blade with a very light coating of silicone compound (maybe light oil will work too?). Using a straight edge as a guide, the knife cut easily through the foam just as if he were cutting butter.

Try it OM, and tell me how it works for you.

72, Larry - K3PEG

> How do you cut the foam to fit in those cases? Last time I tried it, the
> result looked like a beaver with mad cow disease had attacked it?
> 73 de Lee
> km4yy
>

Date: Fri, 23 May 2003 20:34:24 -0600
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: leinwebe@mcmail.cis.mcmaster.ca, QRP-L <qrp-l@lehigh.edu>
Subject: [151210] Re: 50-ohm coax - "plenum"
Message-ID: <BAF43650.73FF%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Glen - The plenum quality coax cable is of slightly higher quality than normal cable. I got a large quantity of it when they redid our network at work. It stands up to the sunlight well here at 7000 ft, so I wouldn't expect you to have any problems with it. . I gave some to a friend who was concerned about its flammability. He was running it in the same space as his water heater vent. He said that he couldn't get it to melt or smoke even when put a lit match directly on the insultation. Use it. - Dr. Megacycle KK6MC/5

_____
James R. Duffey KK6MC/5

Cedar Crest NM 87009 DM65

Date: Fri, 23 May 2003 19:36:16 -0700
From: "Frank" <fking@oregonvos.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151211] Mini Boots
Message-ID: <069801c3219d$4094edf0$f41ab1c6@D3C2ZN21>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mini Boots reached Otis OR tda.

73
Frank
AA7XA

Date: Fri, 23 May 2003 19:55:51 -0700
From: Ted Buckley <tedb@aracnet.com>
To: k3peg@comcast.net,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151212] Re: Suggestions for QRP carrying cases?(long)
Message-ID: <5.1.0.14.2.20030523195140.00a3e080@mail.aracnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If you can get away with it, a electric carving knife, one with the
serrated blades that move in opposite directions works well for cutting
foam of the type used in upholstery. The pro tools for cutting foam are
just heavy duty versions of these.   Fairly dense foam cuts easily this
way, leaving a nice smooth edge. Expect varying amounts of QRM from the
kitchen manager however.
73, Ted WA7DFD

At 10:32 PM 5/23/03 -0400, Larry Przyborowski wrote:
>Hi,
>
>Many years ago in the Baltimore, MD area, I watched a fellow who owned a
>foam and surplus sales store (Conkling Salvage Exchange) cut foam rubber to
>order. As I remember, he used a large 1.5 to 2" wide, 10 inch long kitchen
>knife with a serrated edge (I think) to do the job. He coated the knife's

>blade with a very light coating of silicone compound (maybe light oil will
>work too?). Using a straight edge as a guide, the knife cut easily through
>the foam just as if he were cutting butter.
>
>Try it OM, and tell me how it works for you.
>
>72, Larry - K3PEG
>
> > How do you cut the foam to fit in those cases? Last time I tried it, the
> > result looked like a beaver with mad cow disease had attacked it?
> > 73 de Lee
> > km4yy
> >

Date: Fri, 23 May 2003 23:37:00 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151213] Cheap Containment!
Message-ID: <3ECEE8DC.52029115@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok, for several years I have benefitted from you folks scoring all
manner of fantastic deals and passing the goods along. Now, finally, I
can pay you back.

Picture a beige plastic container--3.5 X 2.75 X 1.25 inches. Ok, now
picture one side slotted for sound about 1/4 of the way down, and inside
an 8 ohm mini-speaker. On one end of the box is a sliding DPST swith
with "ON" and "OFF" professionally silk-screened on the appropriate
sides of the switch. Not bad for 84 cents!!

But, here's the fun part: inside is a little circuit board with:

    3 NPO caps (2 "5" and 1 "100")
    a 4 gang DIP switch
    4 electrolytic caps
    2 diodes
    1 inductor
    2 ics (LM358P and a custom job labelled 5290)
    5 transistors (can't read them, but there is the Motorola "M" on the
lower
        corner of two of them that I can see)

trimmer cap, lots of resistors, and other fine parts. Oh yes, a heavy-duty 9 volt
battery connector.

These are Snapit "Portable Ultra-Chime Satellite Receivers" assembled by Cable Electric Products of Providence RI.

>From Electronic Goldmine these babies are $5 for a carton of 6. Heck, the LM358P is 34 cents from Mouser. How much is a mini-speaker from RS?

So go to http://www.goldmine-elec.com/ and check out M8203 "Compact Project Box." It's a steal!!

No commercial interest, but at the moment a most happy customer!

73
Ken KG4FGC

Date: Fri, 23 May 2003 22:24:58 -0500
From: "Tim, N9PUZ" <n9puz@arrl.net>
To: Live Wire <Live-Wire@yahoogroups.com>,
HFPack <hfpack@yahoogroups.com>, FPigs <fpqrp-l@mpna.com>,
Subject: [151214] SVRC Hamfest
Message-ID: <2003523223858.021990@EOS>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

If you're within striking distance of Springfield, Illinois on= Saturday, May
31st consider attending the Sangamon Valley Radio Club Hamfest.

Illinois State Fairgrounds, Cooperative Extension Building

Full details at... http://www.w9dua.com

Flea Market opens at 6:00AM, Commercial Exhibits Open at 8:00AM.= No charge
for flea market spaces, bring your own tables.

ALL SPACES are either indoors or under roof. No worries about= rain!

Tim, N9PUZ

Date: Sat, 24 May 2003 00:20:00 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151215] Re: The fairy godmother waves her magic wand...
Message-ID: <Pine.LNX.4.33.0305240018320.30170-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 23 May 2003, David Hinerman wrote:

> Strange unseen forces have been on the move, and today I find that after
> years of working in the cubicle warren (a.k.a. "dumptser number 3"), I've
> been assigned a second-floor office. With a door. AND A WINDOW! A real,
> live, slide it open and smell the locomotive exhaust window!

No windows that open in my office. They know darned well we'd jump.

72,
Dale - N0XAS
(just got back from NJ, pardon my poor disposition)
--
It's a thankless job, but I've got a lot of Karma to burn off.

Date: Sat, 24 May 2003 00:26:19 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151216] Re: Ot: Stripping the outer insulation from Telephone wire?
Message-ID: <Pine.LNX.4.33.0305240024480.30170-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 23 May 2003, Dean-NR2V/4 wrote:

> Anybody have any hints/kinks on stripping the outer sheath off from 4
> conductor , run of the mill, telephone hookup wire?

Letter opener. The kind you see with the tapered plastic part and a
little blade embedded in the notch. Slides right down the cable and slits
the jacket slick as you please.

72,

Dale - N0XAS
--
It's a thankless job, but I've got a lot of Karma to burn off.

Date: Sat, 24 May 2003 06:32:49 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: <rjohnson390@attbi.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151217] Re: SPICE models
Message-ID: <Law15-DAV65oH3mtg3y0000cf74@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Rich Johnson" <rjohnson390@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, May 24, 2003 3:19 AM
Subject: SPICE models

> Any one have the 2N5109 and/or 2N3553 SPICE models.
> If so please send them on over. I have not been able to locate them on
the
> web.

I found one for the 2N5109 in this document:
http://www.sss-mag.com/pdf/rfosc.pdf

It's mentioned here: http://www.intusoft.com/nlpdf/nl19.pdf

so you might be able to get the other one there. You might need an Intusoft
license, though.

73, Leon
--
Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Sat, 24 May 2003 05:06:12 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "James R. Duffey" <JamesDuffey@comcast.net>
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [151218] Re: Third Order Intercept
Message-ID: <Pine.LNX.4.44.0305240452580.1509-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jim, I can't find anything like IP3 mentioned in the new ARRL stuff but I do find In-band IMD Test and it sounds just like what you describe as being IP3. They do talk about the 3d order intersept and more important measure the intermod products produced by 2 signals a few hundred cycles apart.

On Fri, 23 May 2003, James R. Duffey wrote:

> Karl - QST reports Third Order Intercept Point, also known as IP3, in their
> reviews of rigs. It is in the table of receiver measurements, Table 1
> usually, right below two tone third order IMD dynamic range. Take a look at
> your QST FT-817 review for it.
>
> The handbook explains the third order intercept. It is on page 17.5 of the
> 2001 Handbook. Measurements techniques for it are on page 26-45.
>
> Plot the "transfer function of a receiver, so that the output is on the y
> axis and the input is on the x-axis. The desired receiver output increases 1
> dB for every 1 db input. The undesired third order intermodulation products
> (the hardest ones to eliminate in a receiver) output increases 3 dB for
> every dB increase in input. If you plot the third order line on the same
> graph it will have a steeper slope and intercept the normal 1db/1db transfer
> curve. The point of intersection is the intercept point. Higher numbers are
> better.
>

I'm looking at the QST report on the ft-817 expanded and it may not include the IP3 calculation. I will d/l the version that was in QST and look at that. I do have the latest ARRL test procedures and have read that. I need to read it again.

> There is a bit more to it than that, but the ARRL does report TOI (IP3) in
> QST reviews and explains it in the Handbook. I hope that this helps. - Dr.
> Megacycle KK6MC/5
> _____________________
> James R. Duffey KK6MC/5

> Cedar Crest NM 87008 DM65
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sat, 24 May 2003 07:48:38 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>
Subject: [151219] Rochester, NY
Message-ID: <011201c321ea$6b3dc520$b3e35cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

I will be attending the Rochester, NY Hamfest next Friday, Saturday and leaving Sunday. I am receiving the Technical Achievement Award for the ARRL Atlantic Division on Friday. My wife will be making the trip with me from SE PA. Just wondering if there are any sights to see or things to do besides the Hamfest.

Any e-mails with information will be greatly appreciated.

72 & Good DX
Ron de WB3AAL
wb3aal@fast.net
www.n3epa.org

Date: Sat, 24 May 2003 07:03:05 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: "Flying Pigs" <fpqrp-l@fpqrp.com>, "QRP-L" <qrp-l@Lehigh.EDU>,
	"InHam" <inham@mailman.qth.net>
Subject: [151220] Hamfest Headsup
Message-ID: <000d01c321ec$6ff1c560$3e662bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

July 12, 2003 - Gates open at 6am Local Time (EST not EDT)

33rd Annual Indianapolis Hamfest

Located this year at Camp Sertoma, which is US 52 and German Church Road on the far east side of Indianapolis. Parking is FREE. Talk in will be 146.760 (-600) and exact GPS coords are 39-44-21N and 85-58-16W.

For more information about this hamfest and the variouos forums, prizes, etc you can call the Hamfest Hotline at 317-261-6658 or visit the website http://indyhamfest.com for full details.

If you act now, advance sale tickets are only $5.00, which saves you $2.00 over the regular $7.00 admission price at the gate. Children under 12 admitted at no charge when accompanied by a paying adult.

Advanced sale tickets are available from DJ's Mobile Toys in Carmel Indiana, R&L Electronics in Hamilton Ohio, Batteries Plus in Greenwood Indiana, Currans Electronics in Indianapolis, MAI Prime Parts in Indianapolis, King Electronics in Indianapolis, Affordable Computer Solutions in Indianapolis, and The PC Hospital in Indianapolis.

The Indianapois Hamfest offers hourly door prizes, VE testing, vendor exhibits, a builders contest, and a very nice demonstration of military field radio put on by the Midwest Military Radio Collectors.

Plenty of fleamarket (INDOOR AND OUTDOOR) space is available. Call 317-261-6658 for more details on flea market space.

```
========================================
 KB9BVN/QRP - New Whiteland IN - EM69WN
 QRP-ARCI #10223 QRP-L #1540 FIST #5695
   FISTS CC #764 - Proud Member ARRL
 HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
   INTO INFAMOUS AF4PS ATTIC DIPOLE
  SOC #400  AND  FLYING PIGS QRP #-57
========================================
```

Date: Sat, 24 May 2003 06:39:26 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "John J. McDonough" <wb8rcr@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151221] Re: Dayton Icom Announcement
Message-ID: <Pine.LNX.4.44.0305240619260.1509-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi John, yes when I looked at the QST review in the issue they gave just positive numbers with the preamp OFF and strong negative numbers with the preamp ON. This was with the 500 Hz mechanical filter in use. Be interesting to see what it is with the ceramic SSB filter.

The measure is of intermod products that are caused by components in the reciver that generate these false signals. Last winter I was fooling around during a Fox Hunt and discovered the FT-817 receiver was pretty poor at seperating stations. Then I punched some of the buttons and found that the preamp was ON. I turned that off and things got better. Then I turned on the 10 DB attenuator and things got better. Then I discovered the AGC could be turned off. Did that and it was a huge improvement! Then turned down the RF gain and turned up the AF gain and it sounded like a radio with a 500 Hz filter.

It's going to be fun to see what Icom gets with their new radio. Maybe you get fine performance with the AGC working and the preamp ON.

On Fri, 23 May 2003, John J. McDonough wrote:

> Karl,
>
> The ARRL lab report for the 817 shows the TOI to be between 0.8 and 8.2 with
> the preamp off, worse with the preamp on. So the 817 is a relatively poor
> performer in this regard. This is a little better than the numbers ARS give
> them - about -2. As someone else mentioned, 20 is a really good amateur

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sat, 24 May 2003 08:01:32 -0500
From: George Fremin III <geoiii@kkn.net>

To: "Karl F. Larsen" <k5di@zianet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151222] Re: Dayton Icom Announcement
Message-ID: <20030524130132.GB5266@kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Fri, May 23, 2003 at 03:05:14PM -0600, Karl F. Larsen wrote:
>
>   As I told John, I want to compare this +40 DB IP3 to my FT-817
> which I think is about +20 DB.

Are you saying you think the FT-817 is +20 dbm IP3?

The ARRL review measured it as:

	preamp off	preamp on
3.5 Mhz	+8.2 dBm	-3.1 dBm
14 Mhz	+5.0 dBm	-5.6 dBm
50 Mhz	+0.8 dbm	-12 dBm

Yes +40 would be remarkable - it will be interesting to
see the ARRL tests of the Icom.

--
George Fremin III - K5TR
geoiii@kkn.net
http://www.kkn.net/~k5tr

Date: Sat, 24 May 2003 09:00:17 -0400 (EDT)
From: <n2go@arrl.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151223] FS QRP+/INDEX COMPANION tuner
Message-ID: <Pine.LNX.4.33.0305240846410.15307-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This tuner should be of interest to anyone with a Index QRP+ or anyone
wanting a great integrated tuner and power source.

This is a relatively rare (so I'm told) Index Labs QRP Companion made in 1997. It combines a built in 5 amp hour gel cell, with a built in gel cell
charging circuit that provides constant 240 MA until charged and then floats
and maintains the battery at 13.8 volts. This allows you to keep the charger on thus keeping the battery ahead of things while you are receiving. This enables you to use the battery as the sole source of power for the unit.
The Companion also includes an antenna noise bridge built in so you can tune to the antenna without
transmitting (a neat feature that works great) as well as of course the novel antenna tuner itself. The tuning circuit is a modified "L" circuit developed by Dr. Ulrich Rhode and features very wide matching and only two variable controls.... I won't repeat all the details but it is a very low loss scheme. A description of the circuit is on page 51 of the November 1992 QST.

The tuner works flawlessly and matches the QRP+. The front panel is unmarred and there are a few surface scratches on the sides but the top cover could easily be touched up or re-sprayed. I have a brand new unopened gel cell 12V @ 5A for the new owner. Instruction sheet and schematic included with unit.
This unit should be great for Field day weekend.

$120

73,

Jim n2go

Date: Sat, 24 May 2003 14:09:09 GMT
From: psschwarz@kellnet.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151224] Different Antenna Question
Message-ID: <20030524140909.25558.qmail@mail.kellnet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What type of solder should be used to solder copper tubes together for use as an antenna? By father suggested Silvox (?) for strength. Is this adequate

for both strength and conductivity?

Patrick...KB8RTZ...

Date: Sat, 24 May 2003 09:53:38 -0400
From: Tom Bowman <wa3rey@comcast.net>
To: qrp-l@Lehigh.EDU
Subject: [151225] LED voltage indicator
Message-ID: <000501c321fb$e0e4ba20$08415344@TOMS>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I'm looking for a simple circuit that would light an LED when battery
voltage drops below a pre-set point.

I built one of these 20 years or so ago into an HT and of course traded
the HT away. It used two transistors and I think a zener to set the low
voltage point where the LED comes on.

Been searching on the Web but what I'm finding is special purpose ICs. I
want
something I can put together out of the junk box. Thanks!

73,

Tom, WA3REY

   Tom Bowman, WA3REY, Mount Gretna, PA USA
     (All mail scanned by Norton 2002)

Date: Sat, 24 May 2003 10:08:54 -0500
From: "Mike Mullins" <mmullins@mastnet.net>
To: "QRP-L post message" <qrp-l@lehigh.edu>
Subject: [151226] diode ring mixers
Message-ID: <000f01c32206$65f1cf00$8cbabad0@downstairs>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just came across an excellent article on diode ring mixers (Circuit Cellar

Ink, April 2003, 66-69) by Ed Nisley. Ed is a self-proclaimed "ham radio geek". He has an excellent explanation of how they work, and shows the output products using a spectrum analyzer. The article gave me a new appreciation for how important it is to have an excellent filter behind these mixers. This magazine is mostly devoted to microcontrollers, but Ed has a wide range of interests. Go to: www.circellar.com .

73 de Mike KD5CMN

Date: Sat, 24 May 2003 12:05:08 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [151227] Re: Suggestions for QRP carrying cases?(long)
Message-ID: <5.1.1.6.1.20030524120431.00b32170@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>How do you cut the foam to fit in those cases? Last time I tried it, the
>result looked like a beaver with mad cow disease had attacked it?

Lee,

I've heard people recommend freezing the foam first.

Dave

Dave Hinerman
WD8CIV@att.net

Date: Sat, 24 May 2003 16:19:07 +0000 (GMT)
From: "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151228] fwd:Re: SMD soldering
Message-ID: <20030524161907.38BDA4507@mo120uhou.palm.net>
Mime-Version: 1.0
Content-Type: text/plain

adamvaz@palm.net wrote:

>I learned a lot from Carl N2RVQ. He uses the Butane torch/ soldering iron as well as the hotplate method.
>
>Remember to set the iron NOT to emit a flame especially in the working position. The Wellers are the favored tool. I have two NCG and the man is on the money. You will have to work on practice boards to get the feel. Try not to burn them.
>
>
>---
>Adam Vazquez Kb2Jpd
>
>This email was sent from my Palm(TM) i705 wireless handheld
>
>   "Be who you are and say what you feel because the people who mind
>   don't matter and the people who matter don't mind." - Dr. Seuss

---

Date: Sat, 24 May 2003 10:26:22 -0700
From: "john gabbard" <johngabbard@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151229] HW9 Main Tuning Cap
Message-ID: <005a01c32219$99595080$4f861c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

FYI, owners of Heathkit HW8 & HW9's if needed, can buy replacement tuning Caps at : OEP@bright.net. Available also are reduction drives and 28mh roller inductors if any body is building an antenna matching device. Really a neat site and you should check it out even if! I wish everyone on the list a happy Memorial day weekend. From the Nevada high desert...John   KF7OM

Date: Sat, 24 May 2003 13:32:29 -0400 (EDT)
From: <n2go@arrl.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151230] Re: FS QRP+/INDEX COMPANION tuner- SOLD
Message-ID: <Pine.LNX.4.33.0305241332010.21190-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks for the interest.
73,

Jim n2go

Date: Sat, 24 May 2003 12:30:37 -0500
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>,
netxqrp <netxqrp@mailman.qth.net>, aqrp <AQRP@yahoogroups.com>
Subject: [151231] DSWII Beta Report/Review (LONG)
Message-ID: <002901c3221a$316b1020$6501a8c0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I was fortunate to pick up my 20m DSWII beta (number unknown) at Arkiecon but I've been a definite laggard in getting it on the air. FINALLY, for those interested, please find my report below.

Construction:
Easy. Really. There's only four single wire toroids. With the DDS and the PIC already installed there's not a whole lot left. The flex circuit interface to the front panel is just wonderful. Wires? There aren't any. Receiver alignment? Peak a single transformer by ear. Transmitter alignment? Adjust a cap to make the BFO frequency zero beat with the sidetone.

I would feel very comfortable recommending the DSWII as a "first" QRP radio kit. The SWL40+ is a great rig but the DSWII is probably just as easy to build and provides substantially more radio.

Operation:
My preferred "slalom course" for new radios is DX chasing, specifically operating split into a pileup against a bunch of QRO stations. It's a great test of both the front end and the radio's human interface. DXing is also good practice for the fox hunts...or is it the other way around? :-)

Two nights ago I got on late and found the band open - a nice change! Within 45 minutes I had worked HC8N (Galapagos), HC4/NP3D (Ecuador), and J75KG (Dominica). All were split, all had pileups. My antenna is a 106' end fed inverted L, max height 28'. Heck, I'm beginning to think 4W is too much power....I'm glad I can turn it down. ;-)

The "infinite" RIT makes split operation easy and the LED is a nice reminder that you ARE working split. The only "wish" I have is some simple way to quickly toggle back and forth between the receive frequency and the transmit frequency. A single memory would be nice for this. I would be remiss if I didn't point out that this is a nit that's way beyond the typical application of a small, highly portable single band QRP radio.

QSK operation is especially good. No bumps, no thumps. Folks who enjoy QSK CW (like me) will be very pleased.

The DSWII employs OGC - Operator Gain Control. The gain control is actually an RF attenuator and the audio gain is not adjustable. I was unsure whether or not I would enjoy this aspect of the radio. Now that I've really tested it I find the DSWII implementation of a manual gain control to be an excellent tool for managing the SA612-based front end on the radio even in the face of crushing signal strength. The gain control is especially important because the DSWII has an extremely sensitive receiver. While I don't have the tools to accurately measure minimum discernable signal, I wouldn't be at all surprised if the MDS was in excess of -135dB.

A three crystal filter provides a single fixed listening bandwidth. Realizing that filter bandwidth is very much a personal preference item, my initial reaction was that the DSWII filtering was too wide. "Normal" CW operation for me is 500 Hz on my FT1000MP and the filter skirts are quite steep. Using Spectrogram with a noise generator I found that the -6dB point of the DSWII filter was around 500 Hz bandwidth but the -20dB points were around 900 Hz bandwidth. The rolloff is very sharp on the low frequency side while shallower on the high frequency side of the filter. What I neglected to consider in my initial impression is the discrete, stepped tuning rate of 200 Hz/click in "fast" tuning mode. It turns out that the chosen filter bandwidth provides a good compromise of allowing enough selectivity for most QSOs and also allowing fast knob twirling when scanning the band looking for signals. With too much selectivity you run the risk of skipping right over some of the stations you're looking for. Alternatively, the tuning rate could be slowed but then it would take a zillion turns to get from one end of the band to another. Given a single fixed bandwidth filter, I'm now of the opinion that the engineering choice Dave in selecting the filter bandwith is pretty close to optimum. No surprise there I guess.

Wish List for the DSWIII:
1) Keyer remembers last speed setting on power up
2) Just one frequency memory or RIT remembers last split adjustment
3) Small knob to adjust power output vs. screwdriver adjustment

4) Decreased sidetone volume during offset calibration.

Summary:
Dave Benson has done it again. The DSWII may very well be the
ultimate single band QRP kit. Imagine an SST that's about an inch
wider and deeper, but has a full range VFO, morse audio frequency
annunciator, 4W out, and a built-in keyer, all packaged in a light
grey case that is durable, functional (your mag mount paddles will
stick to it), and attractive too. It's an awesome little radio.

Disclaimer: I had a brew at Arkiecon with Dave but I paid for it
myself.

Date: Sat, 24 May 2003 13:34:13 EDT
From: N0BN@aol.com
To: qrp-l@lehigh.edu
Subject: [151232] =?ISO-8859-1?Q?
Re:N0SXX=20from=20Colorado=20Trail=20Sat=20Nite:=20?=
 =?ISO-8859-1?Q?N=D8BN=20will=20be=20camping=20nearby?=
Message-ID: <1dd.a479b04.2c010715@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable

I will also be camping Saturday and probably Sunday nights and will be withi=
n=20
about 10 miles (maybe 5) of Gary's location, somewhere near the intersection=
s=20
of Craig Creek and the Brookside-McCurdy Trail in the Lost Creek Wilderness=20
near Bailey, Colorado.

Also somewhere between 14050 and 14060 or so.

72,

Daniel N=D8BN
=20

Date: Sat, 24 May 2003 13:52:07 -0400 (EDT)
From: <n2go@arrl.net>
To: <qrp-l@Lehigh.EDU>
Subject: [151233] FS QRP++ Index SSB/CW transceiver

Message-ID: <Pine.LNX.4.33.0305241333120.21190-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am selling my INDEX labs QRP++ transceiver. This is the last production run model. It has the VOGAD speech processor and the Special heavy duty mixers.It also has the latest firmware from the factory. For those not familiar The New QRP ++ features:

The QRP PLUS is a compact low power transceiver with the features and performance you expect in a modern full size tansceiver.
-strong, wide dynamic range receiver
-RF speech processor
- All band operation 160M through 10M
-General coverage receiver 1.8 MHZ to 29.7 Mhz
-20 memories can be Set to any frequency in the operating range
-Provision for efficient Split operation
-High performance SCAF digital filters variable from 100hz to 2400hz
-Single Sideband and Full Break in CW operation
- Built in Iambic Keyer
- Very low power consumption on Receive

-It has an LCD display, switchable attenuator and tilt stand. Short learning curve to operate the radio. Original manual plus a copy of troubleshooting guide and related info is included. I have used this rig to work Europe and Japan and South America on Forty meters...This is not a toy rig :)

It runs on 12 to 13.8VDC and requires a supply or battery that can supply 1.5A or more. A 4A or greater gel cell would be a good supply and should get you through a weekend.

$325 pickup or add $5 to ship (I'll cover the rest)
73,

Jim n2go

Date: Sat, 24 May 2003 12:01:57 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: George Fremin III <geoiii@kkn.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151234] Re: Dayton Icom Announcement
Message-ID: <Pine.LNX.4.44.0305241158060.2128-100000@bucket.dog>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I was in error reporting not third order IP3 but reading the the difference in the signals and the intermod they produced. I should have used:

IP3(orTOI) = 1.5(IMD dynamic range in dB) + (MDS in dB)

and then I would have got the correct answer.

On Sat, 24 May 2003, George Fremin III wrote:

> On Fri, May 23, 2003 at 03:05:14PM -0600, Karl F. Larsen wrote:
> >
> > As I told John, I want to compare this +40 DB IP3 to my FT-817
> > which I think is about +20 DB.
>
> Are you saying you think the FT-817 is +20 dbm IP3?
>
> The ARRL review measured it as:
>
>   preamp off preamp on
> 3.5 Mhz +8.2 dBm   -3.1 dBm
> 14 Mhz +5.0 dBm   -5.6 dBm
> 50 Mhz +0.8 dbm   -12 dBm
>
>
> Yes +40 would be remarkable - it will be interesting to
> see the ARRL tests of the Icom.
>
>
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sat, 24 May 2003 12:01:18 -0700
From: <tlogan7@cox.net>
To: "Lew Paceley" <lew@paceley.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151235] Re: DSWII Beta Report/Review (LONG)
Message-ID: <004501c32226$dcb5a7e0$c9e96a44@ph.cox.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mine should be arriving this week along with an Emtech tuner kit. Can't wait!! I been waiting for this little critter for awhile and I'm jazzed! Great report Lew! 73/Tim NZ7C
----- Original Message -----
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, May 24, 2003 10:30 AM
Subject: DSWII Beta Report/Review (LONG)

> I was fortunate to pick up my 20m DSWII beta (number unknown) at
> Arkiecon but I've been a definite laggard in getting it on the air.
> FINALLY, for those interested, please find my report below.
>
> Construction:
> Easy. Really. There's only four single wire toroids. With the DDS
> and the PIC already installed there's not a whole lot left. The flex
> circuit interface to the front panel is just wonderful. Wires? There
> aren't any. Receiver alignment? Peak a single transformer by ear.
> Transmitter alignment? Adjust a cap to make the BFO frequency zero
> beat with the sidetone.
>
> I would feel very comfortable recommending the DSWII as a "first" QRP
> radio kit. The SWL40+ is a great rig but the DSWII is probably just
> as easy to build and provides substantially more radio.
>
> Operation:
> My preferred "slalom course" for new radios is DX chasing,
> specifically operating split into a pileup against a bunch of QRO
> stations. It's a great test of both the front end and the radio's
> human interface. DXing is also good practice for the fox hunts...or is
> it the other way around? :-)
>
> Two nights ago I got on late and found the band open - a nice change!
> Within 45 minutes I had worked HC8N (Galapagos), HC4/NP3D (Ecuador),
> and J75KG (Dominica). All were split, all had pileups. My antenna is
> a 106' end fed inverted L, max height 28'. Heck, I'm beginning to
> think 4W is too much power....I'm glad I can turn it down. ;-)
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> frequency and the transmit frequency. A single memory would be nice
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> gain control to be an excellent tool for managing the SA612-based
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> The gain control is especially important because the DSWII has an
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> Hz/click in "fast" tuning mode. It turns out that the chosen filter
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> Wish List for the DSWIII:
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> Dave Benson has done it again. The DSWII may very well be the
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> annunciator, 4W out, and a built-in keyer, all packaged in a light
> grey case that is durable, functional (your mag mount paddles will
> stick to it), and attractive too. It's an awesome little radio.
>
> Disclaimer: I had a brew at Arkiecon with Dave but I paid for it
> myself.
>
>

Date: Sat, 24 May 2003 15:53:43 -0400
From: "Tom" <kf4yyd@adelphia.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [151236] PA or antenna
Message-ID: <EIEBLEILGEEGMLHGHOAGEEAACGAA.kf4yyd@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

OK now that I have all of two contacts under my belt I'm ready to start dreaming of phase two. My SW-40 is putting out around 2.5 watts to an inverted Vee up only twenty feet. Since this is my only HF station I was wondering how difficult WAS will be without some kind of upgrade. I've already proven to myself that QRP works and have decided this is where I want to stay. Originally I built the SW-40 to work in the Novice portion of the band but then found out W1AW transmitts in the General portion so I reworked the VFO to receive the code practice sessions (which is also the only reason I went ahead and upraded to General as I wasn't going to keep redoing the torroid)

That being said I consider myself to be a kind of novice squared and don't know how to proceed from here. Should I concentrate more on my antenna i.e improve it somehow or try and come up with a power amp that would allow me to get my signal up to 5 watts if it was needed. While the antenna is probably the best bet I don't have any experience or a lot of test equipment such as an antenna analyzer so I think it might be difficult to optimize it. On the other hand W1FB's Design Notebook has a CW power amp but it looks like I would need to drop the power out of the rig to 0.4 watts so it would work as designed. I'm happy with what I have and don't plan I changing

anything right now I just thinking about the future.

de Tom kf4yyd
Fredericksburg, VA

Date: Sat, 24 May 2003 13:04:03 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: <rjohnson390@attbi.com>,
        "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [151237] RE: SPICE models
Message-ID: <000001c3222f$a923d150$1002a8c0@TrabucoIan>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Haven't tried it, but there's a subcircuit towards the end of this
article that might suit you: http://www.sss-mag.com/pdf/rfosc.pdf

73 de ian, k3imw/6

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf
Of Rich Johnson
> Sent: Friday, May 23, 2003 6:19 PM
> To: Low Power Amateur Radio Discussion
> Subject: SPICE models
>
> Any one have the 2N5109 and/or 2N3553 SPICE models.
> If so please send them on over. I have not been able to locate them
on the
> web.
>
> Thanks
> rich

Date: Sat, 24 May 2003 16:20:55 -0400
From: Jim Eshleman <jce0@Lehigh.EDU>
To: kf4yyd@adelphia.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151238] Re: PA or antenna
Message-ID: <3ECFD427.6020604@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi Tom,

[...]
> know how to proceed from here. Should I concentrate more on my antenna i.e
> improve it somehow or try and come up with a power amp that would allow me
> to get my signal up to 5 watts if it was needed. While the antenna is

   Antenna, antenna, antenna. Work on the antenna. The difference between 2.5 and 5 watts is nominal. Folks here will tell you 2.5 watts is more than you need :-) Read LB's excellent papers for ideas:

   http://www.cebik.com/

73
Jim N3VXI

Date: Sat, 24 May 2003 16:33:14 -0400
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@lehigh.edu>
Subject: [151239] Re: PA or antenna
Message-ID: <014301c32233$bb9b4ee0$cfea5b0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tom, 2 watts is plenty for WAS but propagation on 40 will vary thru the day as well as thru the year so be patient. 20 meters is popular as longer distances are often easier. Hang around the QRP watering holes for good success. Also for AK and HI a sked may be desirable. Also listen a lot. Working QRP contests is a good way to rack up the states too. Maybe trying to elevate your antenna could improve DX a bit. Power should be the last thing you try.

Mike W3IRZ in Conyers Georgia

Date: Sat, 24 May 2003 15:57:18 -0500
From: "George, W5YR" <w5yr@att.net>
To: "Lew Paceley" <lew@paceley.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151240] Re: DSWII Beta Report/Review (LONG)
Message-ID: <012201c32237$10e73780$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sounds like the first step toward the NE-TX Tornados Summer Fox Hunt Team
taking another championship!

I saw Lew's rig and can testify as to the immaculate construction he does.
For its one band, it comes close to being a mini-K2.

Can't wait to hear you on the air, Lew, on those short-skip occasions when I
can hear you from Austin to Dallas.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, May 24, 2003 12:30 PM
Subject: DSWII Beta Report/Review (LONG)

> I was fortunate to pick up my 20m DSWII beta (number unknown) at
> Arkiecon but I've been a definite laggard in getting it on the air.
> FINALLY, for those interested, please find my report below.

Date: Sat, 24 May 2003 16:21:09 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>

To: "Mike Branca" <w3irz@att.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151241] Re: PA or antenna
Message-ID: <003e01c3223a$65e85b80$ea622bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike,

You speak the truth. I try to do WAS every year, just a personal goal. I usually end up running 40m for everything from Indy to Utah and Indy to the east coast. Then I move to 20m or 15m to get the rest of the 7's, and 1's.

I think of the 4 HI contacts I have in the logbook, one is on 40m, 1 is on 20m and the other two were 15m.

I think I'm lucky to be almost central to the rest of the US....propagation wise anyhow.

It was good to see you again at FDIM. Let me know if you need to test any of that ferrite bar stock you bought at Dayton. <HIHI>

72 de KB9BVN

==
 KB9BVN/QRP - New Whiteland IN - EM69WN
 QRP-ARCI #10223 QRP-L #1540 FIST #5695
   FISTS CC #764 - Proud Member ARRL
 HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
   INTO INFAMOUS AF4PS ATTIC DIPOLE
  SOC #400 AND FLYING PIGS QRP #-57
==

----- Original Message -----
From: "Mike Branca" <w3irz@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, May 24, 2003 3:33 PM
Subject: Re: PA or antenna

> Tom, 2 watts is plenty for WAS but propagation on 40 will vary thru the day
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> to elevate your antenna could improve DX a bit. Power should be the
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>
> Mike W3IRZ in Conyers Georgia
>
>
>

Date: Sat, 24 May 2003 18:29:30 -0400
From: "sslyon" <sslyon@megalink.net>
To: <kf4yyd@adelphia.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151242] ANTENNA antenna ......
Message-ID: <002f01c32243$f1f4a080$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Always if there is a choice between a more effective antenna system or more power, go with the antenna. Best bang for the buck; helps RX too. (Pwr doesn't) I accidentally ran a sprint running less than 1W, thinking I was at 5W, and still worked the usual suspects out west... all due to the 88' and 176' EDZ's I have up around 55'-60'. They never would have heard me otherwise. Have fun!
73
aa1my

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

----- Original Message -----
From: "Tom" <kf4yyd@adelphia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, May 24, 2003 3:53 PM

Subject: PA or antenna

> Hi all,
>
> OK now that I have all of two contacts under my belt I'm ready to start
> dreaming of phase two. My SW-40 is putting out around 2.5 watts to an
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> work as designed. I'm happy with what I have and don't plan I changing
> anything right now I just thinking about the future.
>
> de Tom kf4yyd
> Fredericksburg, VA
>
>

Date: Sat, 24 May 2003 18:57:32 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>
Subject: [151243] AT in PA on May 25
Message-ID: <014701c32247$dcff3100$6d635cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

 The weather looks like it will be fair tomorrow morning, so I plan to get out

on the Appalachian Trail and make my May QSO's. Hopefully the rain decides to take a break on Sunday.

Time: Look for me between 11:00 & 12:00 UTC
Freq: 10.106 to 10.116 MHz
Location: North of Route 183 in PA
Rig: K1 @ 5 watts and dipole

72 & Good DX
Ron de WB3AAL
wb3aal@fast.net
www.n3epa.org

End of QRP-L Digest 2930
****
